



AN ISO 9001 : 2008 COMPANY & ACCREDITED LABORATORY AS PER ISO/IEC 17025:2017

4, 7TH MAIN MALLESWARAM, BANGALORE -3

QC ABSTRACT

NAME OF WORK: Improvements to Roads and Drains at Maruthi Layout, Vinayakanagara, Seenappa Garden and Surrounding areas in Ward No.15 (Kuvempunagara).

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
Materials						
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeability method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
2	Coarse aggregate(40 mm down size)	Compressive Strength	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
3	Coarse aggregate(20 mm down size)	Water Absorption	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
4	Fine aggregate	Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1
5	Steel	Bend test	One Test		1	1
		Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
		ReBend test	One Test		1	1
6	Precast (100mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
7	Precast (200mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
8	PCC(M10)	Compressive Strength(7days and 28days)	2 sets /6-15 cum	8.22	4	4
9	RCC(M20)	Compressive Strength(7days and 28days)	8 sets /200-250 cum	217.46	16	16

Assistant Executive Engineer
Vidyanayapura Sub Division



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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : CP-2023-09-28-15 Date: 15-06-23
Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address : Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name : Improvements to Roads and Drains at Maruthi Layout, Vinayakanagara, Seenappa Garden and Surrounding areas in Ward No.15 (Kuvempunagara).
Agency : Sri. U Ramesh, 12, 4th Cross Sunrishe Colony, Cholaanayakanahalli, Bangalore-32.
Customer's Reference : BBMP/EE/BTP/WO/173/2022-23
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 12-06-23
Sample Type : Birla Super 53grade
Reference to BIS codes : IS 269:2015 Ordinary Portland cement Specification ,
IS 4031 (Part 4,5):1988
IS 4031 Part 1 (RA 2021) DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4
IS 4031 Part 2, (RA 2018) Determination of Fineness by Blaine Air Permeability Method, Clause 5
IS 4031 Part 3, (RA 2019) Determination of Soundness, Clause 5, Clause 6
IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 5, (RA 2019) Determination of Initial & Final Setting Time, Clause 5
IS 4031 Part 11, (RA 2019) DETERMINATION OF DENSITY , Clause 6
Date of test : 13-06-23
Environmental Conditions during test : Temperature: 26°C
Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 269:2015
1	Fineness by dry sieving (%)	2.15	—
2	Finess by Air permeability method (m ² /kg.Min)	282.2	225m ² /kg, Min
3	Density (gm/cc)	3.15	—
4	Standard Consistency (%)	29.0%	Not specified
5	Initial Setting time	185 minutes	Not less than 30 minutes
6	Final Setting time	280 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.

All information furnished by Agency/Representative

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Samples will be disposed after 30 days from the date of issue of test certificate



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Quality Manager

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : CP-2023-09-28-15 Date: 11-07-23

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Maruthi Layout, Vinayakanagara, Seenappa Garden and Surrounding areas in Ward No.15 (Kuvempunagara).

Agency : Sri. U Ramesh, 12, 4th Cross Sunrishe Colony, Cholaanayakanahalli, Bangalore-32.

Customer's Reference : BBMP/EE/BTP/WO/173/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 12-06-23

Sample Type : Birla Super 53grade

Reference to BIS codes : IS 269:2015 Ordinary Portland cement Specification , IS 4031 (Part 4,5):1988
IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 6, (RA 2019) Determination of Compressive Strength, Clause 6

Date of test : 13-06-23

Environmental Conditions during test : Temperature: 26°C
Humidity: 72%

Compressive Strength			
Sl.No.	Physical properties	Results	Requirement as per IS 269:2015
1	3 Days	29.5N/mm ²	Not less than 27 N/mm ²
2	7 Days	39.0N/mm ²	Not less than 37 N/mm ²
3	28 Days	54.5N/mm ²	Not less than 53 N/mm ²

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2023-09-28-15 Date: 15-06-23

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Maruthi Layout, Vinayakanagara, Seenappa Garden and Surrounding areas in Ward No.15 (Kuvempunagara).

Agency : Sri. U Ramesh, 12, 4th Cross Sunrishe Colony, Cholaanayakanahalli, Bangalore-32.

Customer's Reference : BBMP/EE/BTP/WO/173/2022-23

Source of Sample : Sample supplied by Agency

Sample condition : Satisfactory

Date of Receipt : 12-06-23

Sample Type : 40mm down size coarse aggregate

Reference to BIS codes : IS: 383:2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1,3,4) RA2021
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
IS 2386 Part 4: Mechanical Properties

Date of test : 12-06-23

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	374	374	2.5	97.5	90-100
3	20 mm	6738	7112	47.4	52.6	30-70
4	10 mm	5274	12386	82.6	17.4	10-35
5	4.75 mm	2081	14467	96.4	3.6	0-5
6	Pan	533	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2023-09-28-15

Date: 15-06-23

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.7	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.5	
3	Specific Gravity	2.65	—
4	Bulk Density(Loose) (Kg/l)	1.49	—
5	Bulk Density(Compacted) (Kg/l)	1.51	—
6	Water Absorption(%)	0.25	—

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2023-09-28-15 **Date:** 14-06-23
Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address : Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name : Improvements to Roads and Drains at Maruthi Layout, Vinayakanagara, Seenappa Garden and Surrounding areas in Ward No.15 (Kuvempunagara).
Agency : Sri. U Ramesh, 12, 4th Cross Sunrishe Colony, Cholaanayakanahalli, Bangalore-32.
Customer Reference : BBMP/EE/BTP/WO/173/2022-23
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 12-06-23
Sample Type/ Size : 20mm down size coarse aggregate
Reference to BIS codes : IS: 383:2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1,3,4) RA2021
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
IS 2386 Part 4: Mechanical Properties
Date of test : 12-06-23

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	159	159	3.2	96.8	90-100
3	10 mm	2541	2700	54.0	46.0	25-55
4	4.75 mm	2117	4817	96.3	3.7	0-10
5	Pan	183	5000	100	0	-

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TEST REPORT ON COARSE AGGREGATES

Lab ID

:

CP-2023-09-28-15

Date: 14-06-23

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	11.6	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	14.8	
3	Specific Gravity	2.62	—
4	Bulk Density(Loose) (Kg/l)	1.50	—
5	Bulk Density(Compacted) (Kg/l)	1.55	—
6	Water Absorption(%)	0.28	—
7	Aggregate crushing Value(%)	26.6	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	24.3	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2023-09-28-15 Date: 14-06-23

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Maruthi Layout, Vinayakanagara, Seenappa Garden and Surrounding areas in Ward No.15 (Kuvempunagara).

Agency : Sri. U Ramesh, 12, 4th Cross Sunrishe Colony, Cholaanayakanahalli, Bangalore-32.

Customer's Reference : BBMP/EE/BTP/WO/173/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 12-06-23

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2021
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption

Date of test : 12-06-23

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	35	35	3.5	96.5	90-100	90-100	90-100	95-100
3	2.36 mm	172	207	20.7	79.3	60-95	75-100	85-100	95-100
4	1.18 mm	116	323	32.3	67.7	30-70	55-90	75-100	90-100
5	600 micron	201	524	52.4	47.6	15-34	35-59	60-79	80-100
6	300 micron	217	741	74.1	25.9	5-20	8-30	12-40	15-50
7	150 micron	183	924	92.4	7.6	0-10	0-10	0-10	0-15
8	Pan	76	1000	100.0	0.0	---	---	---	---

Result : The tested Sample Conforms to Grading Zone II

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2023-09-28-15

Date: 14-06-23

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.5	—
2	Specific Gravity	2.59	—
3	Material finer than 75 micron(%)	7.6	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

* The results obtained are satisfactory as per standard requirements.

Note:

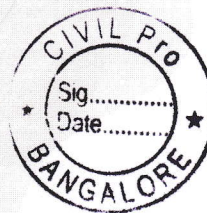
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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST RESULTS OF STEEL

Lab ID : CP-2023-09-28-15 Date: 13-06-23
Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address : Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name : Improvements to Roads and Drains at Maruthi Layout, Vinayakanagara, Seenappa Garden and Surrounding areas in Ward No.15 (Kuvempunagara).
Agency : Sri. U Ramesh, 12, 4th Cross Sunrishe Colony, Cholaanayakanahalli, Bangalore-32.
Customer's Reference : BBMP/EE/BTP/WO/173/2022-23
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 12-06-23
Sample Type : Sunvik
Reference to BIS codes : IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2019.
Date of test : 12-06-23

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm ²)	(N/mm ²)	(%)		
1	Sunvik	Fe500	8	0.391	512	652	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.616	528	672	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.888	544	668	20.0%	Satisfactory	Satisfactory

* The results obtained are satisfactory as per standard requirements.

Note:

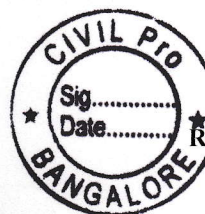
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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

Lab ID : CP-2023-09-28-15 Date: 30-06-23

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Maruthi Layout, Vinayakanagara, Seenappa Garden and Surrounding areas in Ward No.15 (Kuvempunagara).

Agency : Sri. U Ramesh, 12, 4th Cross Sunrishe Colony, Cholaanayakanahalli, Bangalore-32.

Customer's Reference : BBMP/EE/BTP/WO/173/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 26-06-23

Sample Type /Size : Precast Cover Slab (100mm Thick)

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete

Date of test : 26/06/2023

Grade of Slab : M15

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm ²)	(N/mm ²)	(N/mm ²)
1	Cover Slab-1	77.65	100.48	1.116	4735	80.9	17.1	15.9	19.9
2	Cover Slab-2	77.24	100.52	1.122	4685	82.3	17.6	16.3	20.4
3	Cover Slab-3	77.48	100.51	1.118	4714	81.5	17.3	16.1	20.1

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Format No: CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

Lab ID : CP-2023-09-28-15 Date: 30-06-23

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Maruthi Layout, Vinayakanagara, Seenappa Garden and Surrounding areas in Ward No.15 (Kuvempunagara).

Agency : Sri. U Ramesh, 12, 4th Cross Sunrishe Colony, Cholaanayakanahalli, Bangalore-32.

Customer's Reference : BBMP/EE/BTP/WO/173/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 26-06-23

Sample Type /Size : Precast Cover Slab (230mm Thick)

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete

Date of test : 26/06/2023

Grade of Slab : M15

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm ²)	(N/mm ²)	(N/mm ²)
1	Cover Slab-1	77.82	230.15	2.813	4755	81.2	17.1	15.9	19.8
2	Cover Slab-2	77.31	230.58	2.834	4693	80.9	17.2	16.0	20.0
3	Cover Slab-3	77.49	230.89	2.812	4715	83.4	17.7	16.4	20.6

* The results obtained are satisfactory as per standard requirements.

Note:

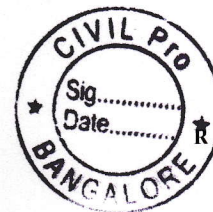
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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2023-09-28-15 Date: 01/07/2023

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Maruthi Layout, Vinayakanagara, Seenappa Garden and Surrounding areas in Ward No.15 (Kuvempunagara).

Agency : Sri. U Ramesh, 12, 4th Cross Sunrishe Colony, Cholaanayakanahalli, Bangalore-32.

Customer's Reference : BBMP/EE/BTP/WO/173/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 26-06-23

Customer ID : Drain Bottom Raft Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 01/07/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Drain Bottom Raft Concrete	M20	24/06/2023	01/07/2023	150.79 X 150.16 X 150.14	22643	8.168	323.3	14.3	14.3
2	Drain Bottom Raft Concrete	M20	24/06/2023	01/07/2023	150.89 X 150.60 X 150.02	22725	8.852	322.4	14.2	
3	Drain Bottom Raft Concrete	M20	24/06/2023	01/07/2023	150.33 X 150.75 X 150.71	22662	8.970	324.6	14.3	

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.

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Quality Manager

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Assistant Executive Engineer
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4, 7TH MAIN MALLESWARAM, BANGALORE - 3

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2023-09-28-15 Date: 22/07/2023

Customer : Assistant Executive Engineer, Vidyanayapura Sub Division, BBMP, Bangalore.

Address : Vidyanayapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Maruthi Layout, Vinayakanagara, Seenappa Garden and Surrounding areas in Ward No.15 (Kuvempunagara).

Agency : Sri. U Ramesh, 12, 4th Cross Sunrishe Colony, Cholaanayakanahalli, Bangalore-32.

Customer's Reference : BBMP/EE/BTP/WO/173/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 26-06-23

Customer ID : Drain Bottom Raft Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 22/07/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Drain Bottom Raft Concrete	M20	24/06/2023	22/07/2023	150.87 X 150.24 X 150.09	22667	8.690	525.0	23.2	23.4
2	Drain Bottom Raft Concrete	M20	24/06/2023	22/07/2023	150.13 X 150.05 X 150.55	22528	8.219	524.7	23.3	
3	Drain Bottom Raft Concrete	M20	24/06/2023	22/07/2023	150.49 X 150.64 X 150.44	22670	8.279	537.5	23.7	

* The results obtained are satisfactory as per standard requirements.

Note:

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2023-09-28-15 Date: 04/07/2023
Customer : Assistant Executive Engineer, Vidyanayapura Sub Division, BBMP, Bangalore.
Address : Vidyanayapura Sub Division, BBMP, Bangalore.
Project Name : Improvements to Roads and Drains at Maruthi Layout, Vinayakanagara, Seenappa Garden and Surrounding areas in Ward No.15 (Kuvempunagara).
Agency : Sri. U Ramesh, 12, 4th Cross Sunrishe Colony, Cholaanayakanahalli, Bangalore-32.
Customer's Reference : BBMP/EE/BTP/WO/173/2022-23
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 29-06-23
Customer ID : Drain Side Wall Concrete
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 7 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test : 04/07/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen		Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)					
1	Drain Side Wall Concrete	M20	27/06/2023	04/07/2023	150.97	X	22661	8.176	331.6	14.6	14.6
					150.10	X					
					150.42						
2	Drain Side Wall Concrete	M20	27/06/2023	04/07/2023	150.98	X	22718	8.571	337.3	14.8	
					150.47	X					
					150.45						
3	Drain Side Wall Concrete	M20	27/06/2023	04/07/2023	150.68	X	22679	8.199	324.1	14.3	
					150.51	X					
					150.03						

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2023-09-28-15 Date: 25/07/2023
Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address : Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name : Improvements to Roads and Drains at Maruthi Layout, Vinayakanagara, Seenappa Garden and Surrounding areas in Ward No.15 (Kuvempunagara).
Agency : Sri. U Ramesh, 12, 4th Cross Sunrishe Colony, Cholaanayakanahalli, Bangalore-32.
Customer's Reference : BBMP/EE/BTP/WO/173/2022-23
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 29-06-23
Customer ID : Drain Side Wall Concrete
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 28 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test : 25/07/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen		Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)						
1	Drain Side Wall Concrete	M20	27/06/2023	25/07/2023	150.22	X	22633	8.689	537.3	23.7	23.3
					150.67	X					
					150.86						
2	Drain Side Wall Concrete	M20	27/06/2023	25/07/2023	150.33	X	22560	8.710	521.4	23.1	
					150.07	X					
					150.09						
3	Drain Side Wall Concrete	M20	27/06/2023	25/07/2023	150.49	X	22706	8.436	526.6	23.2	
					150.88	X					
					150.82						

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2023-09-28-15 Date: 10/07/2023
Customer : Assistant Executive Engineer, Vidyanayapura Sub Division, BBMP, Bangalore.
Address : Vidyanayapura Sub Division, BBMP, Bangalore.
Project Name : Improvements to Roads and Drains at Maruthi Layout, Vinayakanagara, Seenappa Garden and Surrounding areas in Ward No.15 (Kuvempunagara).
Agency : Sri. U Ramesh, 12, 4th Cross Sunrishe Colony, Cholaanayakanahalli, Bangalore-32.
Customer's Reference : BBMP/EE/BTP/WO/173/2022-23
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 05-07-23
Customer ID : Drain Bottom Raft Concrete
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 7 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test : 10/07/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Drain Bottom Raft Concrete	M20	03/07/2023	10/07/2023	150.65	X	22702	8.504	323.1	14.2
					150.70	X				
					150.49					
2	Drain Bottom Raft Concrete	M20	03/07/2023	10/07/2023	150.41	X	22598	8.578	330.5	14.6
					150.24	X				
					150.73					
3	Drain Bottom Raft Concrete	M20	03/07/2023	10/07/2023	150.79	X	22761	8.907	325.9	14.3
					150.94	X				
					150.71					

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2023-09-28-15 Date: 31/07/2023
Customer : Assistant Executive Engineer, Vidyanayapura Sub Division, BBMP, Bangalore.
Address : Vidyanayapura Sub Division, BBMP, Bangalore.
Project Name : Improvements to Roads and Drains at Maruthi Layout, Vinayakanagara, Seenappa Garden and Surrounding areas in Ward No.15 (Kuvempunagara).
Agency : Sri. U Ramesh, 12, 4th Cross Sunrishe Colony, Cholaanayakanahalli, Bangalore-32.
Customer's Reference : BBMP/EE/BTP/WO/173/2022-23
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 05-07-23
Customer ID : Drain Bottom Raft Concrete
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 28 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test : 31/07/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen		Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)					
1	Drain Bottom Raft Concrete	M20	03/07/2023	31/07/2023	150.60	X	22591	8.785	520.1	23.0	23.5
					150.01	X					
					150.78						
2	Drain Bottom Raft Concrete	M20	03/07/2023	31/07/2023	150.41	X	22690	8.513	542.9	23.9	
					150.86	X					
					150.04						
3	Drain Bottom Raft Concrete	M20	03/07/2023	31/07/2023	150.18	X	22548	8.662	534.0	23.7	
					150.14	X					
					150.55						

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2023-09-28-15 Date: 13/07/2023

Customer : Assistant Executive Engineer, Vidyanayapura Sub Division, BBMP, Bangalore.

Address : Vidyanayapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Maruthi Layout, Vinayakanagara, Seenappa Garden and Surrounding areas in Ward No.15 (Kuvempunagara).

Agency : Sri. U Ramesh, 12, 4th Cross Sunrishe Colony, Cholaanayakanahalli, Bangalore-32.

Customer's Reference : BBMP/EE/BTP/WO/173/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 08-07-23

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete C1.5

Date of test : 13/07/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Drain Side Wall Concrete	M20	06/07/2023	13/07/2023	150.83 X 150.38 X 150.87	22681	8.912	334.5	14.7	14.8
2	Drain Side Wall Concrete	M20	06/07/2023	13/07/2023	150.35 X 150.33 X 150.50	22602	8.770	339.0	15.0	
3	Drain Side Wall Concrete	M20	06/07/2023	13/07/2023	150.13 X 150.22 X 150.07	22553	8.190	332.5	14.7	

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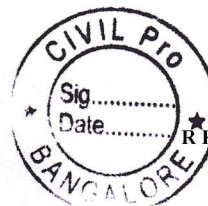
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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2023-09-28-15 Date: 03/08/2023

Customer : Assistant Executive Engineer, Vidyanayapura Sub Division, BBMP, Bangalore.

Address : Vidyanayapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Maruthi Layout, Vinayakanagara, Seenappa Garden and Surrounding areas in Ward No.15 (Kuvempunagara).

Agency : Sri. U Ramesh, 12, 4th Cross Sunrishe Colony, Cholaanayakanahalli, Bangalore-32.

Customer's Reference : BBMP/EE/BTP/WO/173/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 08-07-23

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 03/08/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Drain Side Wall Concrete	M20	06/07/2023	03/08/2023	150.43 X 150.58 X 150.86	22651	8.790	539.0	23.8	23.7
2	Drain Side Wall Concrete	M20	06/07/2023	03/08/2023	150.50 X 150.10 X 150.71	22590	8.961	528.7	23.4	
3	Drain Side Wall Concrete	M20	06/07/2023	03/08/2023	150.43 X 150.63 X 150.46	22658	8.968	539.1	23.8	

* The results obtained are satisfactory as per standard requirements.

Note:

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2023-09-28-15 Date: 20/07/2023

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Maruthi Layout, Vinayakanagara, Seenappa Garden and Surrounding areas in Ward No.15 (Kuvempunagara).

Agency : Sri. U Ramesh, 12, 4th Cross Sunrishe Colony, Cholaanayakanahalli, Bangalore-32.

Customer's Reference : BBMP/EE/BTP/WO/173/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 15-07-23

Customer ID : Drain Bottom Raft Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 20/07/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Drain Bottom Raft Concrete	M20	13/07/2023	20/07/2023	150.91 X 150.25 X 150.36	22675	8.474	330.4	14.6	14.7
2	Drain Bottom Raft Concrete	M20	13/07/2023	20/07/2023	150.29 X 150.75 X 150.17	22657	8.684	337.9	14.9	
3	Drain Bottom Raft Concrete	M20	13/07/2023	20/07/2023	150.23 X 150.87 X 150.62	22665	8.791	334.3	14.7	

* The results obtained are satisfactory as per standard requirements.

Note:

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2023-09-28-15 Date: 10/08/2023

Customer : Assistant Executive Engineer, Vidyanayapura Sub Division, BBMP, Bangalore.

Address : Vidyanayapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Maruthi Layout, Vinayakanagara, Seenappa Garden and Surrounding areas in Ward No.15 (Kuvempunagara).

Agency : Sri. U Ramesh, 12, 4th Cross Sunrishe Colony, Cholaanayakanahalli, Bangalore-32.

Customer's Reference : BBMP/EE/BTP/WO/173/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 15-07-23

Customer ID : Drain Bottom Raft Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 10/08/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Drain Bottom Raft Concrete	M20	13/07/2023	10/08/2023	150.28 X 150.79 X 150.72	22661	8.410	526.2	23.2	23.6
2	Drain Bottom Raft Concrete	M20	13/07/2023	10/08/2023	150.83 X 150.89 X 150.36	22758	8.434	545.1	24.0	
3	Drain Bottom Raft Concrete	M20	13/07/2023	10/08/2023	150.06 X 150.95 X 150.56	22652	8.361	538.0	23.8	

* The results obtained are satisfactory as per standard requirements.

Note:

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2023-09-28-15 Date: 20/07/2023

Customer : Assistant Executive Engineer, Vidyanayapura Sub Division, BBMP, Bangalore.

Address : Vidyanayapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Maruthi Layout, Vinayakanagara, Seenappa Garden and Surrounding areas in Ward No.15 (Kuvempunagara).

Agency : Sri. U Ramesh, 12, 4th Cross Sunrishe Colony, Cholaanayakanahalli, Bangalore-32.

Customer's Reference : BBMP/EE/BTP/WO/173/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 15-07-23

Customer ID : Drain Bottom Raft Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 20/07/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Drain Bottom Raft Concrete	M20	13/07/2023	20/07/2023	150.95 X 150.03 X 150.63	22646	8.418	338.6	15.0	14.4
2	Drain Bottom Raft Concrete	M20	13/07/2023	20/07/2023	150.63 X 150.64 X 150.98	22690	8.581	320.0	14.1	
3	Drain Bottom Raft Concrete	M20	13/07/2023	20/07/2023	150.80 X 150.22 X 150.29	22653	8.756	318.1	14.0	

* The results obtained are satisfactory as per standard requirements.

Note:

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Assistant Executive Engineer
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AN ISO 9001 : 2008 COMPANY & ACCREDITED LABORATORY AS PER ISO/IEC 17025:2017

4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2023-09-28-15 Date: 10/08/2023

Customer : Assistant Executive Engineer, Vidyanayapura Sub Division, BBMP, Bangalore.

Address : Vidyanayapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Maruthi Layout, Vinayakanagara, Seenappa Garden and Surrounding areas in Ward No.15 (Kuvempunagara).

Agency : Sri. U Ramesh, 12, 4th Cross Sunrishe Colony, Cholaanayakanahalli, Bangalore-32.

Customer's Reference : BBMP/EE/BTP/WO/173/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 15-07-23

Customer ID : Drain Bottom Raft Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 10/08/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Drain Bottom Raft Concrete	M20	13/07/2023	10/08/2023	150.93	X	22725	8.561	544.1	23.9
					150.56	X				
					150.31					
2	Drain Bottom Raft Concrete	M20	13/07/2023	10/08/2023	150.37	X	22591	8.231	541.3	24.0
					150.24	X				
					150.40					
3	Drain Bottom Raft Concrete	M20	13/07/2023	10/08/2023	150.15	X	22650	8.484	530.9	23.4
					150.84	X				
					150.70					

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2023-09-28-15 Date: 24/07/2023

Customer : Assistant Executive Engineer, Vidyananyapura Sub Division, BBMP, Bangalore.

Address : Vidyananyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Maruthi Layout, Vinayakanagara, Seenappa Garden and Surrounding areas in Ward No.15 (Kuvempunagara).

Agency : Sri. U Ramesh, 12, 4th Cross Sunrishe Colony, Cholaanayakanahalli, Bangalore-32.

Customer's Reference : BBMP/EE/BTP/WO/173/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 19-07-23

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 24/07/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Drain Side Wall Concrete	M20	17/07/2023	24/07/2023	150.55	X	22667	8.142	326.2	14.4
					150.57	X				
					150.80					
2	Drain Side Wall Concrete	M20	17/07/2023	24/07/2023	150.18	X	22618	8.182	322.9	14.3
					150.61	X				
					150.28					
3	Drain Side Wall Concrete	M20	17/07/2023	24/07/2023	150.72	X	22733	8.348	329.6	14.5
					150.83	X				
					150.93					

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2023-09-28-15 Date: 14/08/2023

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Maruthi Layout, Vinayakanagara, Seenappa Garden and Surrounding areas in Ward No.15 (Kuvempunagara).

Agency : Sri. U Ramesh, 12, 4th Cross Sunrishe Colony, Cholaanayakanahalli, Bangalore-32.

Customer's Reference : BBMP/EE/BTP/WO/173/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 19-07-23

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 14/08/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Drain Side Wall Concrete	M20	17/07/2023	14/08/2023	150.24 X 150.89 X 150.62	22669	8.592	524.8	23.1	23.3
2	Drain Side Wall Concrete	M20	17/07/2023	14/08/2023	150.80 X 150.23 X 150.70	22655	8.494	529.4	23.4	
3	Drain Side Wall Concrete	M20	17/07/2023	14/08/2023	150.69 X 150.32 X 150.59	22652	8.496	529.2	23.4	

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2023-09-28-15 Date: 24/07/2023

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Maruthi Layout, Vinayakanagara, Seenappa Garden and Surrounding areas in Ward No.15 (Kuvempunagara).

Agency : Sri. U Ramesh, 12, 4th Cross Sunrishe Colony, Cholaanayakanahalli, Bangalore-32.

Customer's Reference : BBMP/EE/BTP/WO/173/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 19-07-23

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 24/07/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	Drain Side Wall Concrete	M20	17/07/2023	24/07/2023	150.84 X 150.91 X 150.94	22764	8.646	335.0	14.7	14.6
2	Drain Side Wall Concrete	M20	17/07/2023	24/07/2023	150.76 X 150.15 X 150.94	22636	8.956	335.5	14.8	
3	Drain Side Wall Concrete	M20	17/07/2023	24/07/2023	150.54 X 150.71 X 150.25	22688	8.784	324.5	14.3	

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2023-09-28-15 Date: 31/07/2023

Customer : Assistant Executive Engineer, Vidyananyapura Sub Division, BBMP, Bangalore.

Address : Vidyananyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Maruthi Layout, Vinayakanagara, Seenappa Garden and Surrounding areas in Ward No.15 (Kuvempunagara).

Agency : Sri. U Ramesh, 12, 4th Cross Sunrishe Colony, Cholaanayakanahalli, Bangalore-32.

Customer's Reference : BBMP/EE/BTP/WO/173/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 26-07-23

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M10 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 31/07/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	PCC	M10	24/07/2023	31/07/2023	150.22 X 150.57 X 150.51	22619	8.931	160.5	7.1	7.6
2	PCC	M10	24/07/2023	31/07/2023	150.07 X 150.44 X 150.85	22577	8.389	175.0	7.7	
3	PCC	M10	24/07/2023	31/07/2023	150.21 X 150.67 X 150.20	22632	8.099	177.1	7.8	

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2023-09-28-15 Date: 21/08/2023

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Maruthi Layout, Vinayakanagara, Seenappa Garden and Surrounding areas in Ward No.15 (Kuvempunagara).

Agency : Sri. U Ramesh, 12, 4th Cross Sunrishe Colony, Cholaanayakanahalli, Bangalore-32.

Customer's Reference : BBMP/EE/BTP/WO/173/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 26-07-23

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M10 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 21/08/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	PCC	M10	24/07/2023	21/08/2023	150.12 X 150.87 X 150.75	22649	8.978	263.5	11.6	11.9
2	PCC	M10	24/07/2023	21/08/2023	150.63 X 150.88 X 150.66	22726	8.173	281.7	12.4	
3	PCC	M10	24/07/2023	21/08/2023	150.16 X 150.66 X 150.55	22623	8.148	262.6	11.6	

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Agency : Sri. U Ramesh, 12, 4th Cross Sunrishe Colony, Cholaanayakanahalli, Bangalore-32.

Customer's Reference : BBMP/EE/BTP/WO/173/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 26-07-23

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M10 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 31/07/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	PCC	M10	24/07/2023	31/07/2023	150.94 X 150.34 X 150.11	22692	8.985	177.7	7.8	7.5
2	PCC	M10	24/07/2023	31/07/2023	150.68 X 150.22 X 150.41	22634	8.218	161.5	7.1	
3	PCC	M10	24/07/2023	31/07/2023	150.88 X 150.09 X 150.68	22645	8.477	172.7	7.6	

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Agency : Sri. U Ramesh, 12, 4th Cross Sunrishe Colony, Cholaanayakanahalli, Bangalore-32.

Customer's Reference : BBMP/EE/BTP/WO/173/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 26-07-23

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M10 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 21/08/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen		Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)						
1	PCC	M10	24/07/2023	21/08/2023	150.97	X	22792	8.700	282.6	12.4	12.3
					150.98	X					
					150.86						
2	PCC	M10	24/07/2023	21/08/2023	150.65	X	22648	8.525	279.6	12.3	
					150.34	X					
					150.46						
3	PCC	M10	24/07/2023	21/08/2023	150.49	X	22646	8.564	277.5	12.3	
					150.49	X					
					150.60						

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